

# Power choke coils

■ PCMB series.

## Features

- Low profile (3.0 mm max) and small size (7.3mm x6.6mm)
- Occupying small board spaces
- Low loss and high saturating current.

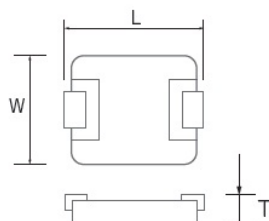
## Applications

- PCs, servers, power sources, mobile devices, flat screen TVs etc.

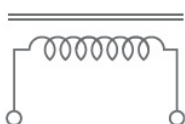
## Specifications

\*All made to order.

### Dimensions • Electrical characteristics



### Equivalent circuits



| Series Name    | Size L x W x T (mm)             | LO Inductance (uH) | DC resistance (mOhm) | Rated current (A) | Saturating current(A) | Packaging      |
|----------------|---------------------------------|--------------------|----------------------|-------------------|-----------------------|----------------|
|                |                                 | Typical            | Max                  | Typical           | Typical               |                |
| PCMB042T-XXXMS | 4.15±0.35 x 4.0±0.3 x 1.8±0.2   | 0.1                | 3.5                  | 4                 | 12                    | 2,000 pcs/reel |
|                |                                 | 0.22               | 6                    | 6.6               | 9                     |                |
|                |                                 | 0.47               | 12.5                 | 14                | 7                     |                |
|                |                                 | 1.0                | 24                   | 27                | 4.5                   |                |
|                |                                 | 1.5                | 38                   | 46                | 4                     |                |
|                |                                 | 2.2                | 52                   | 58                | 3                     |                |
|                |                                 | 3.3                | 74                   | 87                | 2.5                   |                |
|                |                                 | 0.68               | 11                   | 12                | 8.5                   |                |
|                |                                 | 1.0                | 13                   | 14                | 7                     |                |
|                |                                 | 1.2                | 15                   | 16                | 6.5                   |                |
| PCMB053T-XXXMS | 4.85±0.35 x 4.7±0.2 x 2.8±0.2   | 1.5                | 18                   | 20                | 6                     | 2,000 pcs/reel |
|                |                                 | 2.2                | 29                   | 35                | 5.5                   |                |
|                |                                 | 3.3                | 32                   | 38                | 5                     |                |
|                |                                 | 0.1                | 1.5                  | 1.7               | 32.5                  |                |
|                |                                 | 0.2                | 2.4                  | 3.0               | 24                    |                |
|                |                                 | 0.22               | 2.5                  | 2.8               | 23                    |                |
|                |                                 | 0.25               | 3.0                  | 3.5               | 21                    |                |
|                |                                 | 0.33               | 3.5                  | 3.9               | 20                    |                |
|                |                                 | 0.47               | 4.0                  | 4.2               | 17.5                  |                |
|                |                                 | 0.56               | 4.7                  | 5                 | 16.5                  |                |
| PCMB063T-XXXMS | 6.95±0.35 x 6.6±0.2 x 2.8±0.2   | 0.68               | 5                    | 5.5               | 15.5                  | 1,000 pcs/reel |
|                |                                 | 0.82               | 6.7                  | 8                 | 13                    |                |
|                |                                 | 0.9                | 9                    | 10                | 11                    |                |
|                |                                 | 1.0                | 9                    | 10                | 11                    |                |
|                |                                 | 1.2                | 10                   | 12                | 10                    |                |
|                |                                 | 1.5                | 14                   | 15                | 9                     |                |
|                |                                 | 2.2                | 18                   | 20                | 8                     |                |
|                |                                 | 2.5                | 20                   | 22                | 7                     |                |
|                |                                 | 3.3                | 28                   | 30                | 6                     |                |
|                |                                 | 4.7                | 37                   | 40                | 5.5                   |                |
| PCMB065T-XXXMS | 7.05±0.35 x 6.6±0.2 x 4.8±0.2   | 6.8                | 54                   | 60                | 4.5                   | 1,000 pcs/reel |
|                |                                 | 0.2                | 0.9                  | 1.2               | 32                    |                |
|                |                                 | 0.22               | 1.2                  | 1.4               | 30                    |                |
|                |                                 | 0.36               | 3.2                  | 3.5               | 21                    |                |
|                |                                 | 0.40               | 3.2                  | 3.5               | 20                    |                |
|                |                                 | 0.47               | 3.5                  | 3.9               | 20                    |                |
|                |                                 | 0.56               | 3.4                  | 3.6               | 20                    |                |
|                |                                 | 0.68               | 3.9                  | 4.2               | 18                    |                |
|                |                                 | 0.82               | 4.6                  | 4.9               | 16.5                  |                |
|                |                                 | 1.0                | 5.6                  | 6.5               | 13                    |                |
| PCMB103T-XXXMS | 11.15±0.35 x 10.0±0.3 x 2.8±0.2 | 1.2                | 6                    | 7.5               | 11                    | 500 pcs/reel   |
|                |                                 | 1.5                | 6.7                  | 7.5               | 11                    |                |
|                |                                 | 2.2                | 11.2                 | 12.5              | 8                     |                |
|                |                                 | 3.3                | 19.9                 | 20.9              | 7                     |                |
|                |                                 | 4.7                | 23                   | 25                | 6.5                   |                |
|                |                                 | 8.2                | 40                   | 43                | 5.5                   |                |
|                |                                 | 0.36               | 1.3                  | 1.6               | 23                    |                |
|                |                                 | 0.47               | 2.1                  | 2.5               | 23                    |                |
|                |                                 | 0.56               | 2.4                  | 3                 | 22                    |                |
|                |                                 | 0.68               | 2.9                  | 3.4               | 21                    |                |
| PCMB103E-XXXMS | 11.15±0.35 x 10.0±0.3 x 3.3±0.2 | 1.0                | 5.3                  | 6                 | 13                    | 500 pcs/reel   |
|                |                                 | 1.5                | 6.5                  | 7.5               | 13                    |                |
|                |                                 | 2.2                | 8                    | 9                 | 13                    |                |
|                |                                 | 3.3                | 14.5                 | 16                | 9                     |                |
|                |                                 | 4.7                | 20.5                 | 22.5              | 7                     |                |
|                |                                 | 8.2                | 35                   | 45                | 5                     |                |
|                |                                 | 10                 | 50                   | 55                | 5                     |                |
|                |                                 | 1.0                | 2.7                  | 3.0               | 20                    |                |
|                |                                 | 2.7                | 3.0                  | 20                | 27                    |                |
|                |                                 | 3.0                | 20                   | 27                |                       |                |

| Series Name    | Size L x W x T (mm)             | LO Inductance (uH) | DC resistance (mOhm) | Rated current (A) | Saturating current(A) | Packaging     |
|----------------|---------------------------------|--------------------|----------------------|-------------------|-----------------------|---------------|
|                |                                 | Typical            | Max                  | Typical           | Typical               |               |
| PCMB104T-XXXMS | 11.15±0.35 x 10.0±0.3 x 3.8±0.2 | 0.15               | 0.5                  | 0.65              | 40                    | 500 pcs/ reel |
|                |                                 | 0.19               | 0.7                  | 0.8               | 38                    |               |
|                |                                 | 0.22               | 0.9                  | 1.0               | 35                    |               |
|                |                                 | 0.36               | 1.05                 | 1.2               | 30                    |               |
|                |                                 | 0.39               | 1.1                  | 1.2               | 31                    |               |
|                |                                 | 0.41               | 1.1                  | 1.3               | 30                    |               |
|                |                                 | 0.47               | 1.6                  | 1.8               | 26                    |               |
|                |                                 | 0.56               | 1.6                  | 1.8               | 25                    |               |
|                |                                 | 0.68               | 2.4                  | 2.7               | 22                    |               |
|                |                                 | 0.88               | 2.7                  | 3.0               | 20                    |               |
| PCMB104E-XXXMS | 10.85±0.35 x 10.0±0.3 x 3.8±0.2 | 1.0                | 3                    | 3.3               | 18                    | 500 pcs/ reel |
|                |                                 | 1.5                | 3.8                  | 4.2               | 16                    |               |
|                |                                 | 1.8                | 4.5                  | 5                 | 15                    |               |
|                |                                 | 2.0                | 5.2                  | 5.8               | 14                    |               |
|                |                                 | 2.2                | 6.0                  | 7                 | 12                    |               |
|                |                                 | 3.3                | 10.8                 | 11.8              | 10                    |               |
|                |                                 | 4.7                | 17                   | 20                | 8.5                   |               |
|                |                                 | 5.6                | 20                   | 23                | 7.5                   |               |
|                |                                 | 6.8                | 22.5                 | 25                | 6.5                   |               |
|                |                                 | 10                 | 27.5                 | 30                | 7.5                   |               |
| PCMB105T-R47MS | 11.15±0.35 x 10.0±0.3 x 4.8±0.2 | 15                 | 40                   | 45                | 6.25                  | 500 pcs/ reel |
|                |                                 | 22                 | 60                   | 66                | 5.0                   |               |
|                |                                 | 33                 | 85                   | 92                | 4.4                   |               |
|                |                                 | 47                 | 130                  | 145               | 3.3                   |               |
|                |                                 | 68                 | 178                  | 195               | 2.3                   |               |
|                |                                 | 1.0                | 2.7                  | 3.2               | 22                    |               |
|                |                                 | 2.2                | 5.8                  | 7                 | 14                    |               |
|                |                                 | 3.3                | 11                   | 13.2              | 11                    |               |
|                |                                 | 4.7                | 13.2                 | 15                | 10                    |               |
|                |                                 | 5.6                | 16                   | 18.5              | 8.5                   |               |
| PCMB133E-XXXMS | 13.45±0.35 x 12.6±0.3 x 3.3±0.2 | 6.8                | 21.5                 | 24                | 7.5                   | 500 pcs/ reel |
|                |                                 | 0.22               | 1.1                  | 1.3               | 38                    |               |
|                |                                 | 0.33               | 1.3                  | 1.5               | 36.5                  |               |
|                |                                 | 0.39               | 1.1                  | 1.3               | 38                    |               |
|                |                                 | 0.47               | 1.7                  | 2                 | 32                    |               |
|                |                                 | 0.56               | 1.8                  | 2.2               | 29                    |               |
|                |                                 | 0.62               | 1.8                  | 2.2               | 29                    |               |
|                |                                 | 0.68               | 2.3                  | 2.5               | 28                    |               |
|                |                                 | 1.0                | 3.3                  | 3.5               | 24                    |               |
|                |                                 | 1.5                | 5.1                  | 5.5               | 19                    |               |
| PCMB135T-XXXMS | 13.45±0.35 x 12.6±0.3 x 3.3±0.2 | 2.2                | 7.2                  | 8.0               | 16                    | 500 pcs/ reel |
|                |                                 | 3.3                | 10                   | 12                | 12                    |               |
|                |                                 | 0.22               | 1.1                  | 1.3               | 38                    |               |
|                |                                 | 0.33               | 1.3                  | 1.5               | 36.5                  |               |
|                |                                 | 0.39               | 1.1                  | 1.3               | 38                    |               |
|                |                                 | 0.47               | 1.7                  | 2                 | 32                    |               |
|                |                                 | 0.56               | 1.8                  | 2.2               | 29                    |               |
|                |                                 | 0.62               | 1.8                  | 2.2               | 29                    |               |
|                |                                 | 0.68               | 2.3                  | 2.5               | 28                    |               |
|                |                                 | 1.0                | 3.3                  | 3.5               | 24                    |               |

Rated current : the current that increases the temperature by 40°C

Saturating current : The current that reduces inductance by 30% (PCMB)

\* Contact us for details.

## Part numbering system

**PCMB 13\*\* - \*\*\* M S**

Part code

Size  
(063T=6.6\*7.3\*3.0mm, 104T=10\*11.5\*4.0mm,  
133E=12.6\*13.8\*3.5mm, 135T=12.6\*13.8\*5.0mm)

Inductance value (R56=0.56mH, R68=0.68mH)

Inductance tolerance M=±20%

Material: refer to the table for electrical characteristics